TOP SECRET



PHOTOGRAPHIC INTERPRETATION REPORT

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

SPECIAL-PURPOSE BARGES ASSOCIATED WITH SOVIET NUCLEAR SUBMARINES

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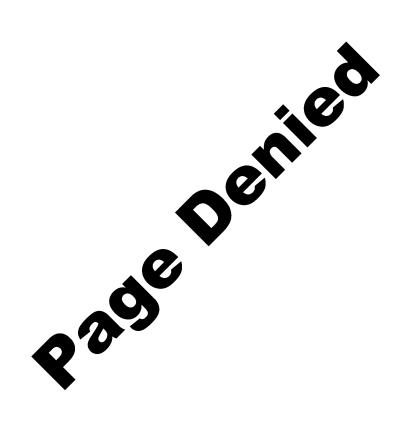
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	SPECIAL-PURPOSE BARGES ASSOCIATED WITH NUCLEAR SUBMARINES	SOVIET
delivered two s serving nuclear are believed to radioactive liq	viet naval task group which recently vis pecial-purpose (SP) barges. These barge have been identified at submarines and nuclear submarine support be used primarily for transporting and uid waste from operational nuclear submataine known to exist.	s, Soviet naval bases t vessels. The barges disposing of low-level
Alligator-class Soviet Northern Havana where he As of the lates	o SP barges were transported to Cuba as landing ship tank (LST) from the Severo Fleet (Figures 1 and 2). They were off avy-lift cranes are available, and towed t available photographic coverage the barges were still in Cienfuegos Bay	morsk Naval Base of the -loaded, probably at to Cienfuegos (Figure 3).
direct associate support vessels Examples of suc- indicating a ro- level radioacti- narrow lines of	sessment of the primary function of the ion with operational nuclear submarines and their lack of association with any h associations are illustrated on Figure le in the transporting and disposing (duve liquid waste are the following: the the barges; the apparent extensive vent deck; the presence of the barges in the	and nuclear submarine other type of ship. 4. Additional factors mping at sea) of low- heavy-weather bow and ilation and hose-coupling

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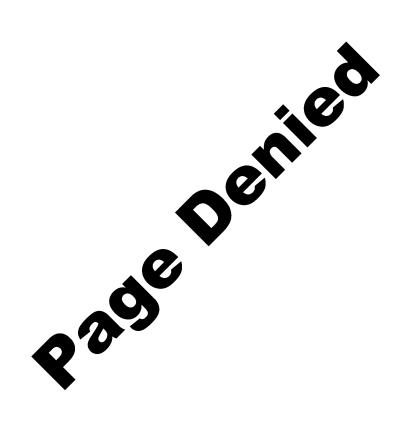
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FIGURE 3. SP BARGES AT CIENFUEGOS NAVAL BASE, CUBA

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Installations of Which Nuclear-Associated Vessels Have Been Seen SP Barges Primary Installation Νo First Remarks (BE No) Function Seen PACIFIC FLEET Petropavlovsk Sub Operating Nuclear submarines Base & Ship here Repair Yard Tarya Bay Probably supports Petropavlovsk Ship-1967 Repair 3 yard & Naval Base Petropavlovsk Seldevaya Submarine Base, Tarya Bay Komsomolsk Shipyard New Nuclear submarine Amur 199 Construction construction 1968 SP barge seen at Sovetskaya Gavan the unidentified Submarine Base underground facility east of base Dunay Sub Base & Ship Operating 1967 Repair Yard Razboynik Bay Probably gets support Dunay Sub Base Operating from Dunay Sub Base Konyushkovka Razboynik Bay 1967 Strelok Strait Sub Operating 1 Base Pavlovskogo Bay Nuc subsare decontami-Petrovka Naval Base & Repair nated before Shipyard arrival Not yet operational. Petrovka Nuclear Sub Repair When complete will Support Facility have own waste disposal system and will decontaminate nuclear submarine here for repair Total SP barges in Pacific Fleet (Sep 70) BALTIC FLEET 3 1968 SP barges here prob Paldiski Naval Base Operating serve as waste disposal system for Paldiski Prob Nuclear Fuels Reprocessing Plant. A Vala AOSR seen here, 1968 1968 Kronshtadt Sub Base Operating 1 An SP barge here for 6 mos, prob from Paldiski Leningrad Shipyards New New SSN construction Construction only. No operational SSN; no nuclear repairs made Total SP barges in Baltic Fleet BLACK SEA FLEET MEDITERRANEAN & EGYPT Soviet Mediterranean Naval Bases and squadron has nu-Ports clear submarines but no SP barges observed CUBA 1970 First seen on Cienfuegos Naval Base Operating 2 (Sep) Alligator LST 2 Total SP barges in Cuba

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Table 1 (continued)

i	Primary Function	SP Barges		
Installation (BE No)		No	First Seen	Remarks
ORTHERN FLEET Rosta Naval Base & Ship Repair Yard Seymorput	Repair	2* (Aug 70)	1970	SP barges loaded on Alligator LST
Chelnopushka Ship Repair Yard	Repair			Y SSBN seen on two occasions
Sayda Guba Submarine Base	Operating	6 (Aug 70)	1966	Y & H SSBN. Before Aug 70, 8 SP barges here
Severomorsk Naval Base	Operating	2* (Aug 70)	1970	Surface ship base. S barges on Alligator LST
Ara Guba Naval Base	Operating			H SSBN or G SSB on occasion
Litsa Guba Submarine Base North	Operating		1967	Various nuclear sub- marines have been seen
Litsa Guba Submarine Base South	Operating	11 (Aug 70)	1967	
Andreeva Bay Nuclear Submarine Support Fac	□ Repair	, , ,	1967	Nuclear support to submarines based at Litsa Guba
Pala Guba Naval Base & Ship Repair Yard	Repair		1967	Major repair work on ships systems, including nuclear submarines
Severodvinsk Shipyard Amur 402	New Construction			New construction of nuclear submarines
Severodvinsk Naval Base West	Operating	2	1968	Primarily surface shi to support sea tria Transient base for all submarines. SI barges are kept her when not in use.
Severodvinsk Nuclear Submarine Special Support Facility	Repair			Facility has own wast disposal system and decontaminates nu- clear subs in com- plex for repair
Severodvinsk Shipyard Yagry Island	Repair			Nuclear submarines ar decontaminated befo
Iokanga Naval Base & Ship Repair Yard	Operating	8	1966	No major work is done on ships here
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*Two on Alligator LST moved to Cuba in September 1970.

Nuclear Fuels Reprocessing Plant where no other low-level wastedisposal system is apparent; and their considerable weight, indicating extensive shielding necessary for handling radioactive materials. The need for such a disposal system is real. It is the practice of the U.S. Navy to dispose of low-level waste from operational submarines in this manner.

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^{4.} The accompanying table summarizes the result of a comprehensive search on KEYHOLE photography for SP barges. All major naval bases and shippards in the Soviet Union, Egypt, and Cuba were searched. Installations searched which are not included in the table are those at which no nuclear-powered submarines, nuclear support vessels, or SP barges have been seen. The table presents the locations of the SP barges, the number seen at each location, and indications of specific associations with nuclear submarines.

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REFERENCES

IMAGERY

This report is based on all available KEYHOLE and OLD HEAD photography from January 1966 through November 1970.

REQUIREMENT

NPIC/IEG/WGD/WURB Project 150625NA

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